BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Upgradation of Energy efficient Illumination and ornamental poles in Ward No 02 & 04 Parks in Yelahanka Assembly Constituency

Sl No	Description of Work	Unit	Shedule -B Qty	Executed Qty	% of Work Completed	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
1	Eartwork excavation for foundation of buildings,water supply,sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches,stacking the	Cum	125.74	125.74	100.00							
2	Provding and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications	Sqm	386.91	386.91	100.00							
3	Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40 mm and down size graded granite metal machine mixed,concrete laid in layers not exceeding 15cm thick well compacted,in foundation and plinth,including cost of all materials ,labour,HOM	Cum	8.38	8.38	100.00							
4	Providing T.M.T steel reinforcement for R.C.C work including straightening,cutting ,bending ,hooking,placing in position,lapping and/or welding wherever required,tieing with binding wire,anchoring to the adjoining members wherever necessary as per design (laps,hooks and	Kgs	4689.26	4689.26	100.00							
5	Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999	Cum	91.42	91.42	100.00							
7	Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Octagonal pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications	Nos	80.00	80.00	100.00							
9	Supplying, and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete.Single Arm Bracket with 1500mm Standard 40/50MM dia	Nos	80.00	80.00	100.00							
10	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated	Nos	40.00	40.00	100.00							
11	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated	Nos	80.00	80.00	100.00							
12	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtrs	1008.00	1008.00	100.00							
13	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 3.5 core 25 sqmm	Mtrs	1979.00	1979.00	100.00							
14	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 3.5 core 35 sqmm	Mtrs	558.00	558.00	100.00							
15	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required In existing trench/duct. 25 sqmm to 35 sqmm	Mtrs	1008.00	1008.00	100.00							
	abour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe wall / on pole as required In existing trench/duct. 35 sqmm to 75 sqmm	Mtrs	2537.00	2537.00	100.00							

	Description of Work	Unit	Shedule -B Qty	Executed Qty	% of Work Completed	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtrs	2754.00	2754.00	100.00							
19	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete.(As per Civil SR KSRB I-2, P-7)Asphalt cutting	Mtrs	192.00	192.00	100.00							
20	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 1.5 sqmm	Mtrs	4575.00	4575.00	100.00							
21	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than .25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.40mm	Mtrs	70.00	70.00	100.00							
22	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.35Sqmm	Nos	8.00	8.00	100.00							
23	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.25 sqmm Long Barrel	Nos	1072.00	1072.00	100.00							
24	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode.The funnel should be enclosed in a CC	Nos	8.00	8.00	100.00							
25	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required.600x600x3mm Copper plate	Nos	40.00	40.00	100.00							
26	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc.,and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm	Mtrs	50.00	50.00	100.00							
28	Fabricating supplying and mounting MS box made out SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with	Sqcm	280000.00	280000.00	100.00							
29	Supplying and fixing Moulded Case Circuit Breaker (MCCB)over the existing wood/panel board using necessary screws,bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and	Nos	8.00	8.00	100.00							
30	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Nos	170.00	170.00	100.00							
32	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required.25x3mm Copper strip	Mtrs	82.50	82.50	100.00							
33	Supplying & fixing of retrofit type - LED bulb.....W with OPAL acrylic diffuser comprising of LED source with CCT 6500 degree K, CRI> 70%. efficacy >80 lumen per watt,life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by	Nos	61.00	61.00	100.00							
34	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.63Amps	Nos	18.00	18.00	100.00							

	Description of Work	Unit	Shedule -B Qty	Executed Qty	% of Work Completed	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
	pplying and fixing of Spiral Earth Electrodes as per standard technical specification as per ESCOM.	Each	133.00	133.00	100.00							
36	Erection of steel supports 9.0 to 10.00 mtr long such as 22.68 kg (50 lbs) Rail,27.22 kg (60 Lbs) Rail I Beam of sizes 200x100mm, 175x90 mm, 125x100mm. Fabricates poles tubular poles in pits of 1.8 mtr Depth, Aligning, Refillingwith soil and ramming as approved drawing (Releasing	Each	50.00	50.00	100.00							
37	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires. (Releasing of LED Lights=90% of erction Charges Rs 175x90%=157.50)	Each	50.00	50.00	100.00							
38	Hiring of 35 tons capacity Crane for releasing and refixing of High Mast	Hour	20.00	20.00	100.00							
39	Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power	Nos	8.00	8.00	100.00							
E1	Supply and erection of 3 Mtr long Aluminium Pole with 60 watt LED Light made out of extruded alluminium 80x120mm with 3 MM thickness, with attached bent Square curvature at the top with Two nos of Light, Blue colour Strip Light should be conduted along the Pole	Nos	40.00	40.00	100.00							
E2	Supply of 3 Mtr Powder Coated Aluminium Pole with 60W Light and strip wattage of 20W, dimension of pole 3mm gage with 80x120mm with Body Colour Grey with Diamond Shaped Curvature suspended from the top bend at 45 deg from the pole. Illumination is from the top	Nos	32.00	32.00	100.00							
			= Planed %									
			= Executed %									

BAR/PEART CHART

NAME OF THE WORK: Upgradation of Energy efficient illumination and Ornamental poles in Ward no 02 & 04 in Yelahanka Assembly Constituency Yelahanka Zone.

JOB NO : 002-21-000041.

WORK ORDER NO: BBMP/EE/YNK.D/EPMT-05/WO/80/21-22, Dated:21.01.2022.

Since this is an Electrical work BAR/PEART CHART is not required.

Executive Engineer (Ele).
BBMP. Yelahanka Zone